Conversion instruction Freshgas-Detection

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1 Application

The conversion kit is used for Julian 8601125 to add a light barrier to detect a lack of freshgas and the existance of the bellow. Condition to implement this function is Julian SW 2.01 or greater.

2 Scope of delivery

The conversion kit " Frischgas-Mangel. Nachrüst." 8601694, ST includes the following:

1 Conversion instruction
1 preassembled and testet light barrier unit

3 Tools / Test equipment

3.1 Tools:

Basic equipment, incl.

- 7901060 Screwdriver, ball-headed, 2.5mm and/or Allen key 2.5mm
- 7900674 Screwdriver, ball-headed, 3.0mm and/or Allen key 3.0mm
- 7910253 Phillips-head screwdriver B1x80
- 7910254 Phillips-head screwdriver B2x100
- 7910317 Wrench, open-ended 18x19mm
- 7901522 / 7910267 File(s)
- (Tweezers)

3.2 Test equipment:

Basic equipment, incl. tools for

Final test
- 7900234 VDE-testing apparatus
- 7901945 Test cable VDE with plug
- 1807323 Power cord 2m
- 7900765 Short circuit plug VDE 0751

4 4 Job instructions

4.1 General:

Remove the breathing system from the compartment and detach the back wall from Julian; disconnect all hose connections (central supply hoses) and take the pneumatic module out of the housing.

4.2 Installation:

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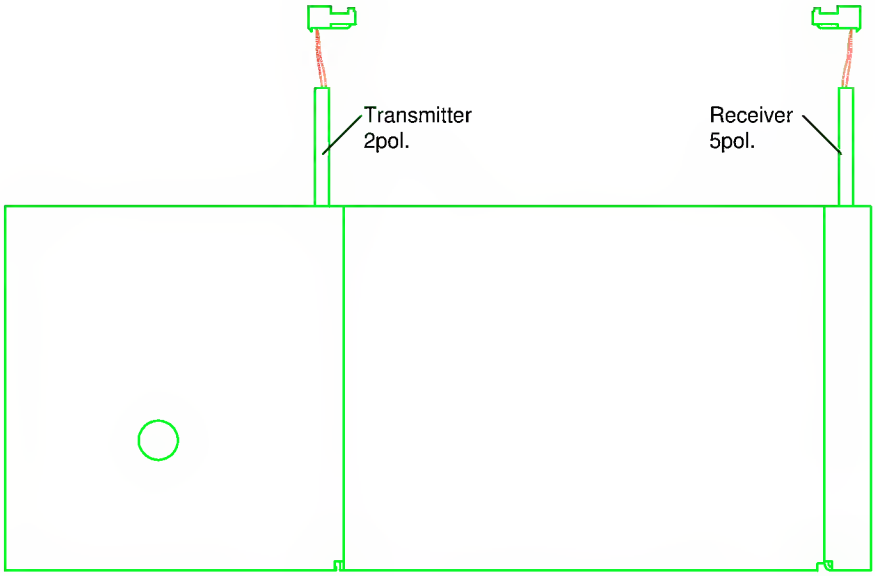
Remove left front screw between Julian housing and trolley (AF00003, behind breathing system).

In case of cable are not conected with the light barriers, connect the cable with the light barriers as discribe in the picture below.



Drill/file two holes (position s. sketch) and put cables of transmitter and receiver through holes.

Remove protection of adhesive tape at bottom side of sheet metal and use existing screw (AF0003) and adhesive tape to fix the light barrier assembly at the housing.

Close hole in sheet metal with cap.

holes for light barrier cables

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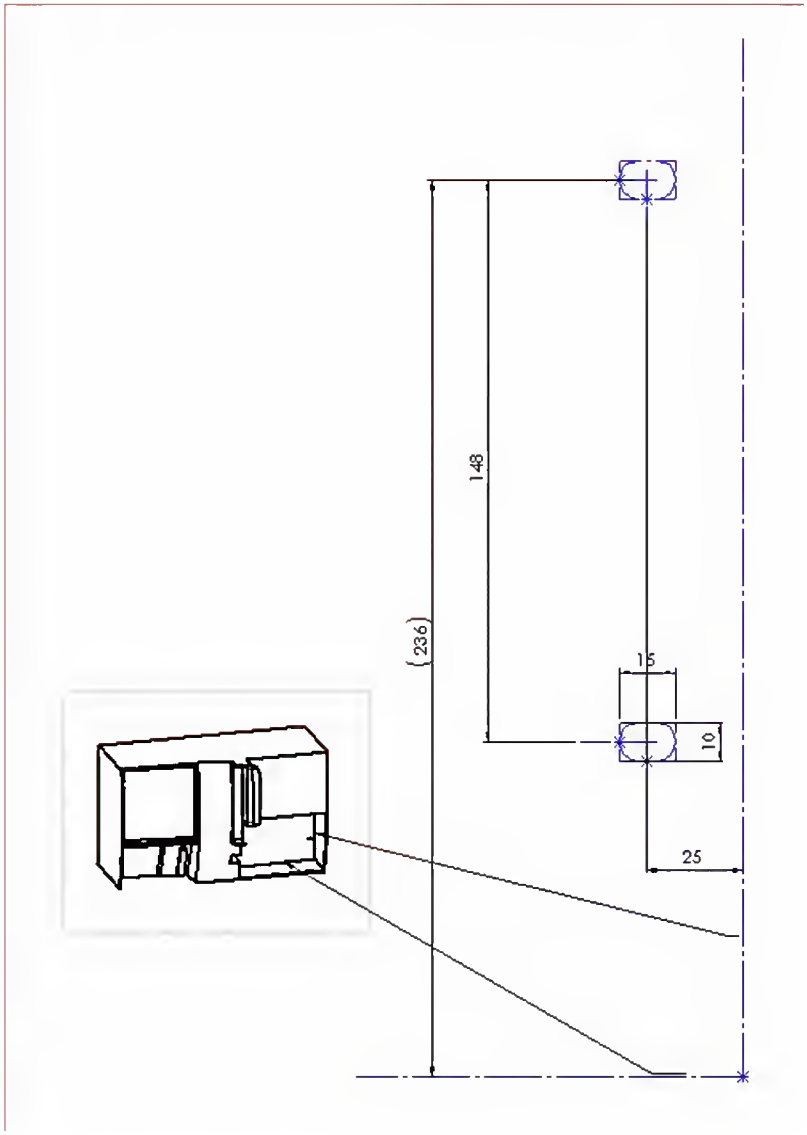
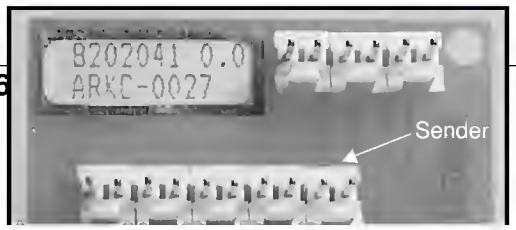
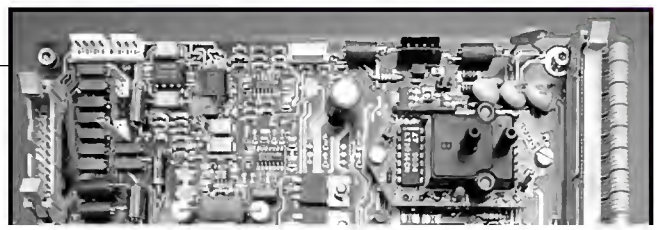


4.3 Electrical connection:

Connect sender (2pole plug) with PCB Mixer Adapter 8202042 and receiver (5pole plug) of light barrier to PCB Aktuatorik 8201921 (see photos).

For this purpose the mixer block has to be removed as described in the repair instruction microfiche or DORIS.





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4.4 Assembly:

Reinsert the pneumatic module into the housing, taking care to ensure that cables and hoses are not kinked or squashed.

Insert breathing system and reconnect hoses (central supply hoses + sample gas return hose).

Activate service mode to select the bellow detection.

Perform selftest; once the self-test test has been carried out successfully, close the back wall.

To test the light barrier detection, please perform a leckage of freshgas (example: open sample line) and wait if Freshgas Alarm is comming.

After conversion, perform safety checks as per Julian Test Certificate, item 22.